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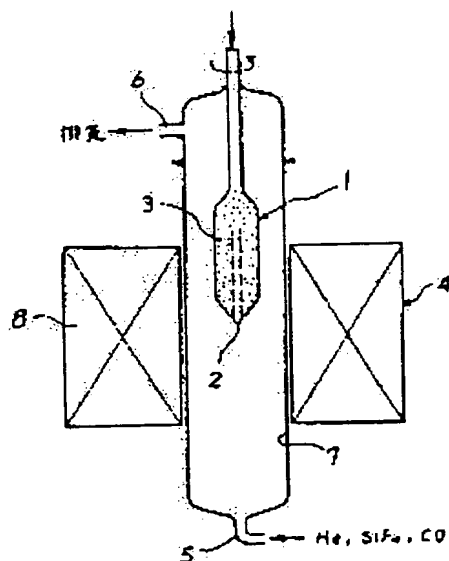
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(21)Application number : 62-058393	(71)Applicant : FURUKAWA ELECTRIC CO LTD:THE
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### (54) PRODUCTION OF BASE MATERIAL FOR OPTICAL FIBER

#### (57)Abstract:

**PURPOSE:** To produce the titled base material free from a structural fault, by forming at least one of the dehydrating atmosphere of a gaseous compd. contg. fluorine and the transparent vitrifying atmosphere by means of the reducing atmosphere and introducing a porous glass body thereinto and subjecting it to dehydration and transparent vitrification.

**CONSTITUTION:** A porous glass body 1 for an optical transmission body which consists of a porous glass layer 2 for a core and a porous glass layer 3 for a cladding and has SiO<sub>2</sub> as an essential component is inserted into a reactor core pipe 7 provided with a heating oven 4 and an electric heater 8 to the outer circumference. After the inside of the reactor core pipe 7 is regulated to the dehydrating atmosphere incorporating both a gaseous compd. contg. fluorine selected from among SiF<sub>4</sub>, CF<sub>4</sub>, SF<sub>6</sub>, CClF<sub>3</sub>, CCl<sub>3</sub>F and reducing gas selected from among CO, SO, NO, H<sub>2</sub>, and D<sub>2</sub> and the porous glass body is heated with the heater 8 and dehydrated, this is subjected to transparent vitrification in the transparent vitrifying atmosphere contg. the above-mentioned reducing gas if necessary.



### LEGAL STATUS

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